

Overview

The KTS-271 is a single channel active receiver that is part of GE Security's new, integrated CCTV UTP (unshielded twisted pair) system. Designed to expand the capabilities of the video product line, this active receiver is able to receive real time color or monochrome video up to 3,000 feet over standard UTP telephone wire. Receiving video over UTP wire, rather than over traditional video cable, provides a reliable, high quality, flexible and expandable system that uses less conduit space, and can be built into existing wiring topologies.

The single input receiver was designed with unparalleled interference immunity, allowing video signals to coexist in the same wire bundles as telephone, datacom signals, and low voltage power circuits with no degradation in video quality. Video signals are sent without the need to digitize or compress, and without the signal degradation associated with these techniques.

Outstanding Features

The KTS-271 provides built-in transient protection and surge suppression. The ability to transmit over UTP wire means that the KTS-271 can be utilized in both new and existing installations.

The KTS-271 active receiver has been designed to work with other GE Security transceiver and receiver components as a system, and are guaranteed to function only when paired with GE Security and NVT (Network Video Technologies) compatible products.

Standard Features

- Real-time video over unshielded twisted-pair wire
- Receive video up to 3,000 feet
- One video input
- Works with all cameras
- Interference immunity
- Built-in transient protection
- Built-in ground isolation
- Compatible with EIA/NTSC, CCIR/PAL, and SECAM

UTP Active Receiver

KTS-271



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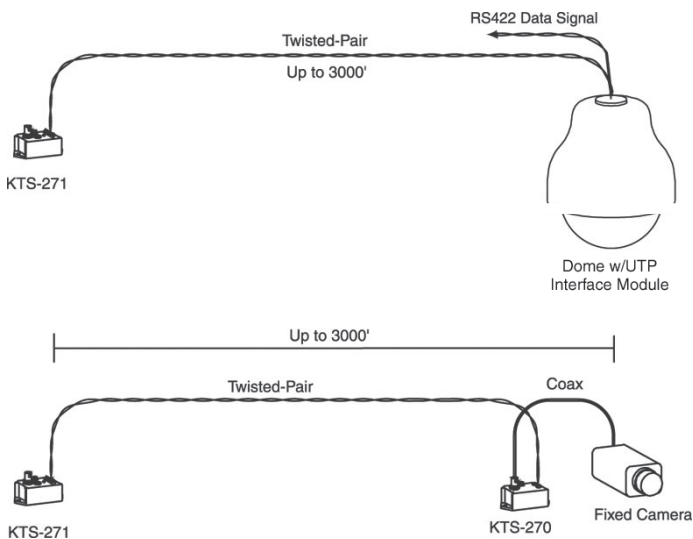
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Specifications

Video	
Frequency Response	DC to 5 MHz
Adjustable distance equalization	Brightness and contrast control
Common-mode/differential-mode rejection	15 KHz to 5 MHz; 60 dB typical
Impedance	Coax, female BNC (75 ohms), UTP, Terminal Block (100 ohms)
LED Indicators	
Blue	Power On
Green	Active - Video present
Wire Type	
Network Wiring	One UTP per port channel
Wire Gauge	24 AWG or thicker
Category Type	2, 3, 4, 5, or better
Impedance	100 ± 20 ohms
DC Loop Resistance	52 ohms per 1,000 ft
Differential Capacitance	19 pF/ft max
Wire Length (camera to monitor)	Up to 3,000 ft (w/coax)
Coax Cable Impedance	75 ohms

Electrical	
KTS-271 (transformer not included)	24 VAC/DC (75 mA max)
One floating power supply may power multiple receivers	
Environmental	
Temperature	32° to 122° F (0° to 50° C)
Humidity (non-condensing)	0 to 95 percent
Transient Immunity	6,000 V 1.2µS x 50 µS (per ANSI/IEEE 587 C62.41)
Mechanical	
KTS-271 single output receiver	
Dimensions (excluding connectors)	3 in x 1.54 in x 1.1 in (76 mm x 39 mm x 28 mm)
Weight	4.0 oz (100 g)
Material	Black ABS
Mounting	Two 0.175 in (4.4 mm) diameter holes, 2.5 in (63.5 mm) apart

Related Diagram



AGENCY COMPLIANCE

FCC PART 15 COMPLIANT **CE** **UL** US **Pb** 
Assembled in USA or PRC

Ordering Information

KTS-271

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.
KTS-271-B-2007-10

